Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8

AEE/KSD/SBR/195/16-17, dt. 2/11/16

Part bill

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11

Serial No. Improvements to roads & drains at Sahakaranagara in ward No. 8, Kodigehalli Sub division 190543

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency K.R. Santhosh Kumar

Date of commencement of work 1.9.2016

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Estimate cost: Rs 49.00 lakhs As No. JC(N)/PR/AS/28/15-16 dtd 20.8.15 – TS No: CER 43 dtd. 21.8.15. WO No. RP/STP/LAND/2-INT/RP/2015-16 dtd 3.2.2016			Sub WO.	008-16-000008.		PCode: P2088
	Measurements recorded on: 28-10-2016						
1)	Hire charges of 100KVA generator including operator, fuel etc complete as directed. Qty vide item No. (1) of page 190583 @ Rs. 400/-					60.00 = Rs	hours 24000/-
2)	Dismantling RCC Trellises as directed. Qty vide item No. (2) of page 190584 @ Rs. 95/-				Limited to	28.15 26.48	cum 25137.00
3)	Dismantling existing granite stone masonry as directed. Qty vide item No. (3) of page 190584 @ Rs. 900/-				Limited to	58.75 55.22	cum to 49698.-

AO (Finance)
BYZ, BBMP
Bangalore-23

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
2)	Earthwork excavation by surface neatly dressed directed & complete duly vide item No. (2)	Normal means & excess each	is ordinary soil, disposed as			1638.26 cum 1634.24 " = Rs.	117420.00
		g page 190584	Limited to				
		@ Rs	71.85				
3)	Removing Rs slabs g drain duly vide Item No. (3) g page	& stacking as directed 190585	Limited to			8263.22 Spl 8360.55 " = Nil	484912.00
		@ Rs.	58/-				
24)	Lead for disposal g carriage rates by duly vide item no. ( )	debris shall be Mechanical Mean g page 190587	payable at as directed. Limited to			1479.42 cum. 1415.56 " = Nil	99103/-
		@ Rs	70.01/-				
4)	Construction g embankment with approved material compacting to meet requirements as directed. duly vide item No. (4) g page	190585	limited to			862.50 cum 814.05 " = Nil	110268.00
		@ Rs.	460/-				

M.A.R. 57 (R

Measuremen

Serial No.....

Name of work.....From.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dim
		Number	Length
1	2	3	4
5)	Refixing stone slabs g drains & pointi duly vide item No.(5) g page 190586		
			@ Rs
6)	Providing granite slabs g selected dressed & fixed in cm t. g as direc duly vide item No. (6) g page 190587		
			@ Rs
9)	Providing & laying in position OPC concrete @ 190 Kg with stones d Rs @ 0.57 cum, reduce wages directed duly vide item No. (9) g page 190688		
			@ Rs

Depth 6	Contents 7	Reference to last Measurement 8
	1638.26 cum	
	1634.24 "	
	= Rt.	11742.00
	8263.22 Sqm	
	8360.55 "	
	= A	48492.00
	1479.42 cum	
	1415.56 "	
	= B	99103/-
	862.50 cum	
	814.05 "	
	= A	11024.00

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 190544

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
5)	Refixing stone slabs of decks & pointing in CM 1:3. dly vide item No.(5) of page 190586		Limited to			5854.32 Sqm	
	@ Rs 70/-					5852.38 Sqm	
						= A	409653.00
6)	Providing granite slabs dressed & fixed in CM 1:3 of selected greenish angular dressed as directed.					2509.20 Sqm	
	vide item No. (6) of page 190587		Limited to			2508.17 "	
	@ Rs. 700/-					= A	1755719/-
9)	Providing & laying in position PCC of M 15 1:2:4 with 40mm dia. aggregate CA @ 0.85 cum FA @ 0.57 cum, machine mixed, cast in layers as directed.					26.93 cum	
	vide item No. (9) of page 190587		Limited to			25.31 "	
	@ Rs 4800/-					= A	121488.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
10)	Providing & constructing chiselled dressed, bond stones @ cost of all materials complete as per drg & as directed. Qty vide item No. (10)	granite masonry in CM 1:6, edges as directed.				39.16 cum 28.65 "	
			90587			Limited to	
			@ Rs. 3500/-			- -/-	135275.00
11)	Extra for using new stones Qty vide Item No. (10)	granite masonry in CM 1:6, edges as directed.				48.96 cum 44.19 "	
			90587			Limited to	
			@ Rs. 4700/-			- -/-	207623/-
12)	providing ruled pointing to coursed stone masonry with CM 1:4, 20mm deep & neat joints as directed. Qty vide item No. ( )					446.68 sqm 10.62 "	
			90588			Limited to	
			@ Rs. 90/-			- -/-	950.00
13)	providing & laying in position PCC in M25 1:2:4 using 20mm nominal size dia. metal CA @ 0.878 cum, FA @ 0.459 cum, machine mixed, laid in layers as directed etc complete.						

M.A.R. 57 (F

Measuremen

Serial No.....

Name of work.....From.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dir	
		Number	Length
1	2	3	4
	Qty vide item No. ( )	y Rqc	1903 @ Rs
15)	Providing TMT steel including straightening lapping etc complete Qty vide item No. ( )	reinforcement cutting be as directed y Rqc	19 @
16)	Providing & removing centering (sh propping etc & removal y formwo Qty vide item No. ( )	y Rqc	19 @

BOOK

ons Breadth 5	ons Depth 6	Contents 7	Reference to last Measurement 8
CM 1:6, edges in cookcourse			
		39.16	cum
limited to		28.65	"
00/-		- "	135275.00
		48.96	cum
Limited to		44.19	"
00/-		- "	207623/-
one masonry wk directed.			
		146.68	Sqm
Limited to		10.62	Sqm
		- "	950.00
@ 112.4 cum rubble CA @ Mixed, laid			

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 190545

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty vide item No. ( )	1	Rate 190588 @ Rs.	Limited to 5300/-		14.82 10.27 "	cum "
						- "	54431.00
15)	Providing THE steel reinforcement for RCC & RR work including straightening cutting bending placing in position, lapping etc complete as directed Qty vide item No. ( )	1	Rate 190588 @ Rs.	Limited to 40000/-		2.482 2.17 "	tonne tonne
						- "	17430/-
16)	Providing & removing centering, shuttering, staging, propping etc & removal of formwork as directed. Qty vide item No. ( )	1	Rate 190588 @ Rs.	250/-		110.52 "	Sqm
						- "	27650.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
17)	Scarifying existing stone metal layer upto 75mm thick along with their binding materials & consolidating as per specifications complete, picking excess materials & carting away vide item No. ( ) of Page	1	905.88			586.50 Sqm 551.00 Sqm Rs.	44020/-
			Limited to				
			@ Rs. 80/-				
18)	Providing laying spreading & compacting graded stone aggregates to wet mix Macadam specification including premixing the material with water carriage, laying in required layers, rolling & compacting as directed.					146.02 cum 140.30 cum Rs.	196420.0
	vide item No. ( ) of Page	1	905.89				
			Limited to				
			@ Rs. 1400/-				
19)	Clearing the existing WBM road surface including scarifying & binding materials & other foreign matter as directed.					586.50 Sqm 551.00 Sqm Rs.	5510/-
	vide Item No. ( ) of Page	1	905.89				
			Limited to				
			@ Rs. 10/-				

M.A.R. 57

Measurem

Serial No.....

Name of work.....From.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	D
		Number
1	2	3
xx)	Providing & applying primer coat to porous @ 10 kg/sqm over prep directed. vide item No. ( ) of Page	1 @
xx)	Clearing the existing black to brooms, soft brushes & dusting vide item No. ( ) of Page	19
xx)	Providing & applying tack coat bitumen on prepared black top su	

ENT BOOK

Dimensions			Contents	Reference to last Measurement
th	Breadth 5	Depth 6	7	8
...per upto 3 km lead, placing compaction.				
5 88			586.50 Sqm	
Limited to			551.00 Sqm	
80/-			- Rs.	44080/-
...ting graded stone ...preparation including ...carriage, laying ...ity as directed.				
89			146.02 cum	
Limited to			140.30 cum	
140/-			- Rs.	196420.00
...surface including ...foreign matter as				
9			586.50 Sqm	
Limited to			551.00 Sqm	
10/-			- Rs.	5510/-

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 190546

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
a)	providing & applying primer coat for surfaces of medium porosity @ 1.10 kg/Sqm over prepared surface as directed.						
	Qty vide item no. ( ) of page	over	190589			586.50 Sqm	
				Limited to		551.00 Sqm	
			@ Rs.	70/-		- Rs.	38570.00
b)	Cleaning the existing black topped surface with brooms, soft brushes & dusting as directed.						
	Qty vide item no. ( ) of page		190589			1050.45 Sqm	
			@ Rs.	3/-		= Rs.	3151.00
c)	Providing & applying tack coat using 30/50 road tar @ 0.5 kg/10 Sqm						
	Qty vide item no. ( ) of page						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Seating bitumen i boiler etc complete as directed.						
	Qty vide item No-( ) of Pge 190					1050.45	Spl
	@ Rs.			18/-		-Rs	18908/-
22)	Providing & laying in position RCC of design mix M20 with OPC cement @ 320 kg with 20mm & dls metal, CA @ 0.878 cum, FA @ 0.457 cum with superplasticizer, Machine Mixed, concrete laid in layers as directed & complete.						
	culverts at following locations						
A)	6M Main - 1 No, 6M Main - 3 No (2 NO), 3M Main - 3 No (1 NO), 3M Main & CR (4 NO), 60 ft Sahakar Nagar (2 NO)	12	6.00	1.50	0.25	27.00	cum
B)	6M Main - 9 No (2 NO)	2	4.80	1.50	0.25	3.60	"
					Total	31.27	cum
				Limited	to	21.06	cum
	@ Rs 6000/-					- Rs.	186360/-

M.A.R. 57

Measure

Serial No.....

Name of work.....From...

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Le
1	2	3	
23)	Providing & laying seal coat using washed dolepates with bituminous binder & filler to workable, laying with paver achieve desired compaction as		
	for hole filling depression filling on Chandrappa hotel road & Surface layer on Chandrappa hotel road Sahakarnagar circle	12	
		1 x 30.0 x	
		2 x 30.0 x	
		1 x 30.0 x	
		1 x 30.0 x	
		1 x 11.0 x	

OK

Depth 6	Contents 7	Reference to last Measurement 8
...cted.		
- -	1050.45	Spl
- -	-ks	18908/-
...ayin mix ...ds ...ed with ...eed is		
0.25	27.00	cum
0.25	3.60	"
Total	31.27	cum
to	21.06	cum
- -	- Rs.	189360/-

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 190547

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
23)	providing & laying pavi dense bituminous concrete prepared hot mix with washed aggregates & specified grading, using bitumenous binder & filler transporting to hot mix plant to worksite, laying with paver finisher to achieve desired compaction as directed.						
	For hole filling depression filling on Chandappa hotel road	12	1.0	1.0	0.025	0.30	cum
		4	1.0	1.50	0.025	0.04	"
	Surface layer on chandappa hotel road Sahakaarpet to Kolar	1	30.0	$\frac{6.4+6.4}{2}$	0.025	4.68	"
		2	30.0	$\frac{6.4+6.5}{2}$	0.025	9.67	"
		1	30.0	$\frac{6.5+6.5}{2}$	0.025	4.87	"
		1	30.0	$\frac{6.5+6.4}{2}$	0.025	4.82	"
		1	11.0	$\frac{6.4+4.8}{2}$	0.025	1.54	"

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Balaji layout 7th Main Road	1	30.0	(5.2+5.2)/2	0.025	3.90	CUM
		1	30.0	(5.2+5.8)/2	0.025	4.12	"
		1	30.0	(5.8+4.8)/2	0.025	3.97	"
		1	29.0	(4.8+3.5)/2	0.025	2.90	"
					Total	46.92	CUM
	@ Rs. 8700.14/-					= Rs.	408211.00
	Total Bill Amount					= Rs	4716003.00

Certificate:
The work is completed satisfactorily & there are no departmental issues to this work.

The bill is passed for Rupees 4,71,6003.00/-

28/10/16

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Layout sketch pertai... Balaji Layout.

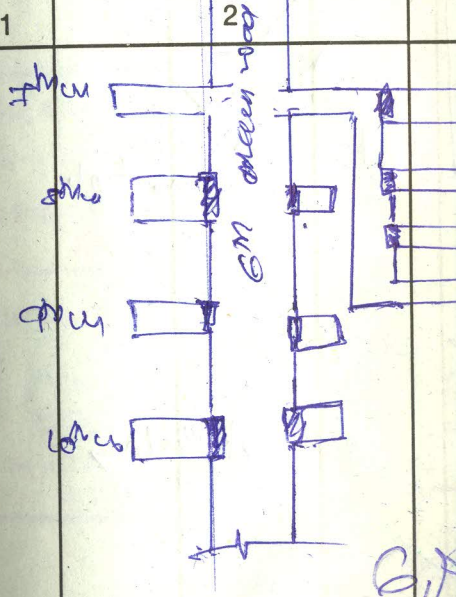
Serial No.....

Name of work.....

Name of Contractor of nature of Agency...

Date of commencement of work.....

Date	Full description, etc, of work	N...
1	2	



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Dimensions			Contents	Reference to last Measurement
ngth 4	Breadth 5	Depth 6	7	8
$\left(\frac{5.2+5.2}{2}\right)\times$		0.025	3.90 Cum	
$\left(\frac{5.2+5.8}{2}\right)\times$		0.025	4.12 "	
$\left(\frac{5.8+4.8}{2}\right)\times$		0.025	3.97 "	
$\left(\frac{4.8+3.5}{2}\right)\times$		0.025	2.00 "	
		Total	46.92 Cum	
8700.00/-			= Rs.	4082[illegible].00
Bill Amount			= Rs	4716003.00

satisfactorily & measurements this work.

The bill is passed for Rupees 4,71,6003.00/-

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Layout sketch pertaining to Balaji Layout.

Not to scale.

1st cross

No. A41

195487 N

M.A.R. 57 (Rule 116)

Measurement Book

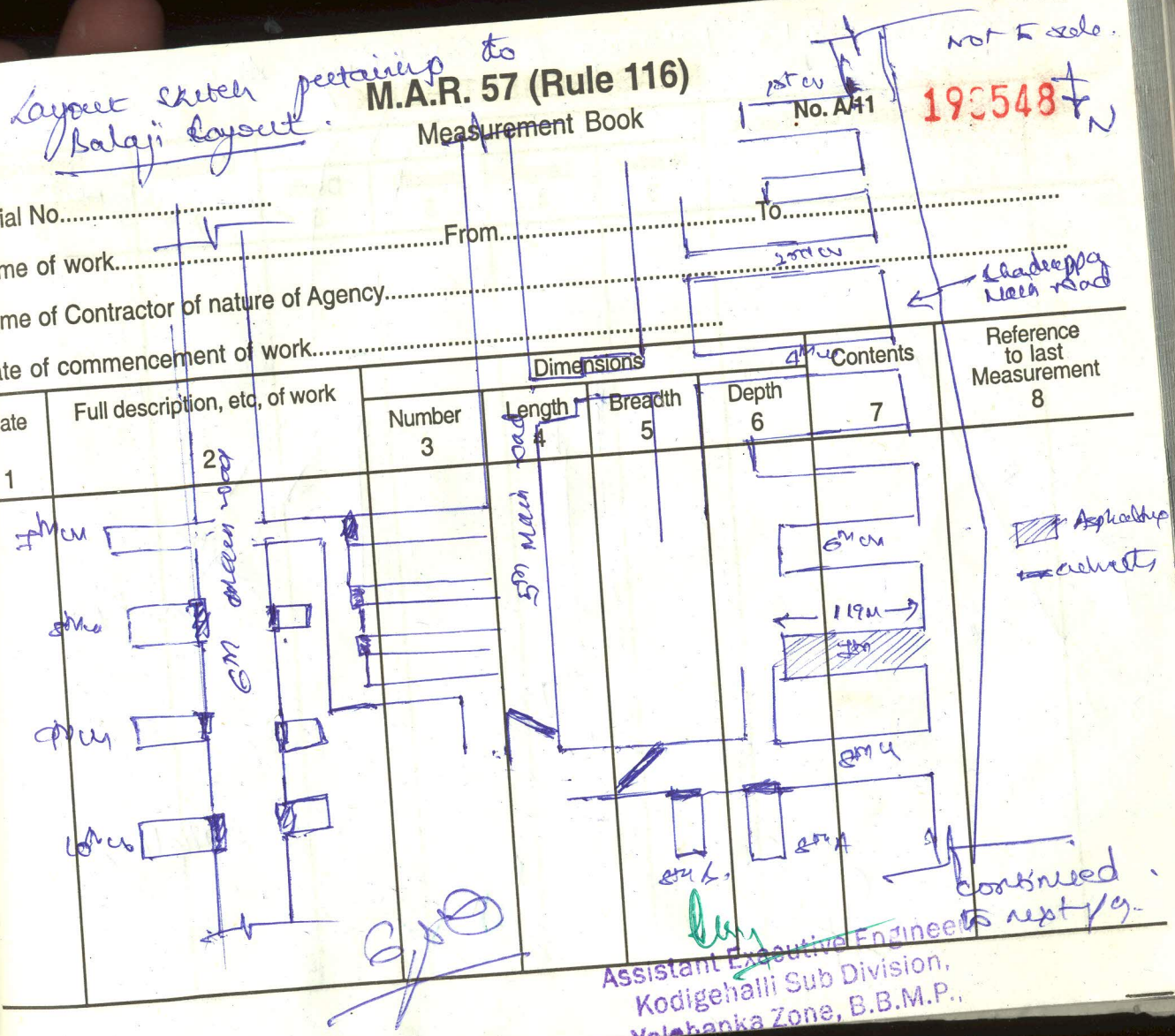
Serial No..... To.....

Name of work..... From.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8



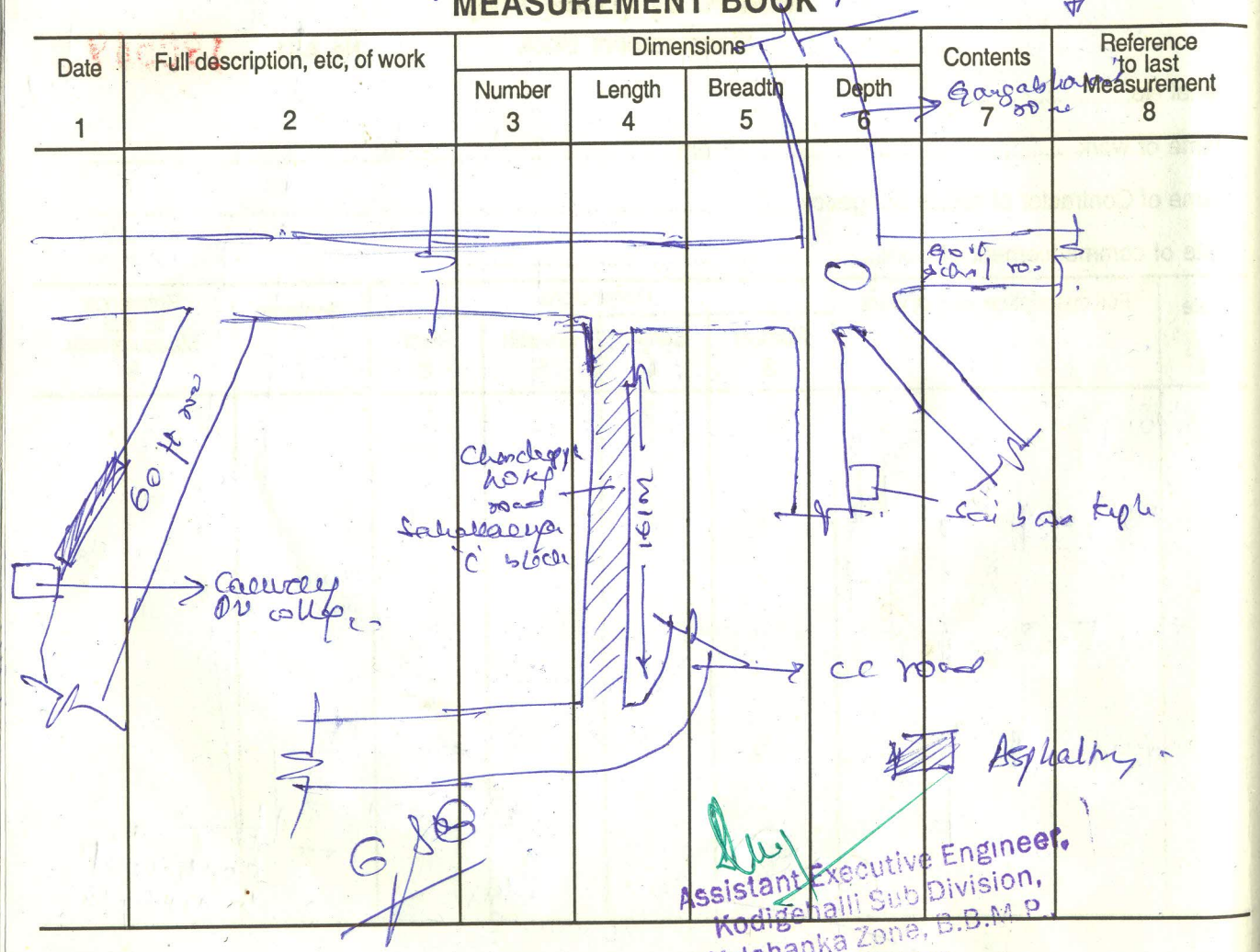
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,

Continued to next p/g.

Location sketch pertaining to Sahakaranagar Area.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Nur
1	2	

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 47,6,003-

ಗಳನ್ನು ಕಾಮ್ಯ ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ. 348,

ಹೊಂಪಾಣಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು

ರೂ. 43,67,587-

ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

ಲೆಕ್ಕಾಧೀಕ್ಷಕರು

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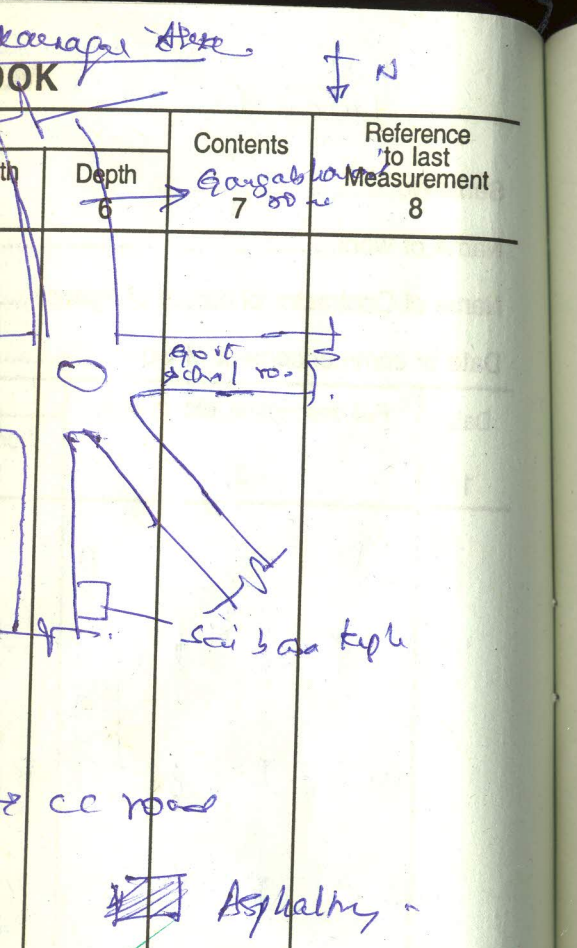
th	Depth 6	Contents 7	Reference to last Measurement 8
		Gangabhavi	



Executive Engineer,
ehalli Sub Division,
anka Zone, B.B.M.P.,
Bangalore.

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 190549

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 47,16,003-೦					Total Rs. 47,16,003-೦	
	ಗಳ್ಳೆ ಪಾಸ್ಸು ಮಾಡಿದೆ : ಇಷರಲ್ಲಿ ರೂ. 3,48,416-೦					IT - 47160-೦	
	ಹೊಣಾಗಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು					VAT - 188640-೦	
	ರೂ. 43,67,587-೦					Cess - 47160-೦	
	ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ					CBF - 4716-೦	
	ಲೆಕ್ಕಾಧಿಕಾರಿ ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಬೃ. ಬೆ. ಮ. ಪಾ					LR - 50740-೦	
						29/11/16.	
						Adj - 3,48,416-೦	
						Cheque 43,67,587-೦	